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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/532,517	04/25/2005	Mankil Jung	J31.12-0001	8702
27367 7590 11/14/2007 WESTMAN CHAMPLIN & KELLY, P.A. SUITE 1400			EXAMINER	
			SULLIVAN, DANIELLE D	
	900 SECOND AVENUE SOUTH MINNEAPOLIS, MN 55402-3319		ART UNIT	PAPER NUMBER
		•	4133	
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			MAIL DATE	DELIVERY MODE
			11/14/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Summary	10/532,517	JUNG ET AL.				
· · · · · · · · · · · · · · · · · · ·	Examiner	Art Unit				
The MAILING DATE of this communication app	Danielle Sullivan	4133				
Period for Reply	bears on the cover sheet with the t	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 23 C	October 2007					
· <u> </u>	s action is non-final.					
<i>'</i>	, 					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-14</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5 and 14</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) 6-13 are subject to restriction and/or election requirement.						
Oralin(s) 0-10 are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>25 April 2005</u> is/are. a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)⊠ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
·	•					
	•					
Attachment(s)						
1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 1) Interview Summary (PTO-413) Paper No(s)/Mail Date						
2) Notice of Dransperson's Patent Drawing Review (P10-948) 3) Information Disclosure Statement(s) (PT0/SB/08)	5) Notice of Informal F					
Paper No(s)/Mail Date	6) Other:					

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group I (claims 1-5 and 14) in the reply filed on 10/23/2007 is acknowledged.

Claims 1-14 are pending. Claims 1-5 and 14 are presented for examination on the merits as they read upon the elected subject matter. Claims 6-13 are withdrawn from consideration as being drawn to non-elected subject matter.

The restriction requirement is deemed proper and is hereby made **final**.

Priority

Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Republic of Korea on 02/05/2004. It is noted, however, that applicant has not filed a certified copy of the 10-2004-007539 application as required by 35 U.S.C. 119(b).

Claim Objections

The claims are objected to because the lines are crowded too closely together, making reading difficult. Substitute claims with lines one and one-half or double spaced on good quality paper are required. See 37 CFR 1.52(b).

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

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The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 14 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The factors considered in the Written Description requirement are (1) level of skill and knowledge in the art, (2) partial structure, (3) physical and/or chemical properties, (4) functional characteristics alone or coupled with a known or disclosed correlation between structure and function, and the (5) method of making the claimed invention.

While all of the factors have been considered, only those required for a *prima* facie case are set forth below.

The specification does not disclose how the pheromone is used as a medical agent for curing disease relating to aging and stress for the purposes according to the invention. The specification discloses the possibility of developing medical substances using the pheromone relating to aging, stress, metabolism, signal transfer system in vivo anti-cancer, obesity and as a suppressing agent for aging and stress as a particularly preferable method of using the compound. The specification teaches a possible research of the active target protein body of the pheromone, however the applicant does not show possession of the mode of action of the pheromone for curing anything. The compound of formula (I-1) and its alkali and alkali earth metal salts as an

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agent for curing disease relating to aging and stress does not satisfy written description.

Currently there is no cure for aging and stress. There are however treatments available that reduce the effects of aging and stress.

The written description requirement is not satisfied.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 14 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The phrase "as medical agent for curing disease relating to aging and stress" is indefinite because the particular disease relating to aging is not disclosed, and one of ordinary skill in the art would not be able to discern exactly what applicant is curing. Claim 14 provides for the use of a pheromone compound of ^R-(3,6-dideoxy-L-arabino-hexopyranosyloxy)-heptanoic acid having a stereochemistry formula (I-1) and its alkali and alkali earth metal salts as medical agent for curing disease relating to aging, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claim 14 is rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under

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35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products, Ltd.* v. *Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Omum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

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Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-5 and 14 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-5 of U.S. Patent No. 7,119,213. Although the conflicting claims are not identical, they are not patentably distinct from each other because U.S. Patent "213" discloses the structure of (I-1), without a particular stereochemistry, where X=H and n=4. However, it is prima facie obvious that the stereoisomers claimed by applicant fall within the scope of the structure claimed in "213" (See In re May, 574 F.2d 1082, 1093-95, 197 USPQ 601, 610-11 (CCPA 1978)). The claimed structure is an obvious variant because the properties and utility is the same, controlling the aging.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Danielle Sullivan whose telephone number is (571) 270-3285. The examiner can normally be reached on 7:30 AM - 5:00 PM Mon-Thur EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Stucker can be reached on (571) 272-0911. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Danielle Sullivan Patent Examiner SHELLEY A. DODSON PRIMARY EXAMINER